NSA/VAO
&
Software Assurance

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Software Assurance Forum

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What We Do

- ***We Discover and Analyze*** vulnerabilities in…
  - the core concepts of security;
  - emerging technologies and products
- ***We conduct operations*** *to find vulnerabilities…*
  - in the operational environment (networking, signals, space…);
  - as revealed thru content
- ***We Translate*** vulnerability knowledge*...*
  - into summaries, trends, root cause.
- ***We Lead*** the Community in**...**
  - the improvement of security practice;
  - guidance, training, education, and standards development.

VAO Presence

- **We’re VERY public**
  - – (Press) FCW/GCN, WTOP, Washington Post, SC Magazine, Information Week, Government Executive, etc…..
  - – (Presentation) Blackhat/DEFCON, RSA, Lumension 360, IAWS, SC Forum, ITSEF, CISO, SANS
  - – (Awards) SC Magazine, Fed 100, GovExec, SANS
- **We create and give away LOTS of great content**
  - – VAO Folders
    - 4000+ given out
  - – Security Configuration Guides
    - 75+ created and posted
    - 7 more in development

Stakeholders in Assurance

Authorities

Suppliers

Buyers

Users

Practitioners

Stakeholders in Assurance

Authorities

DoD Policy, OMB, FISMA, Security Automation Program

Suppliers

OS Vendors, Tool Vendors, Compliance Checklists

Buyers

Air Force, DoD, Standard Desktop Load

Users

DISA STIGs, NIST Checklists, Corporate baselines

Practitioners

NSA, DISA, NIST, SANS, Center for Internet Security

What’s VAO Doing About It

- **Center for Assured Software (CAS)**

  -Scaleable Evaluation Techniques

- **Common Weakness Enumeration (CWE)**

  -Top 25 Programming Errors

- **Consensus Audit Guidelines (CAG)**

  -Critical Security controls

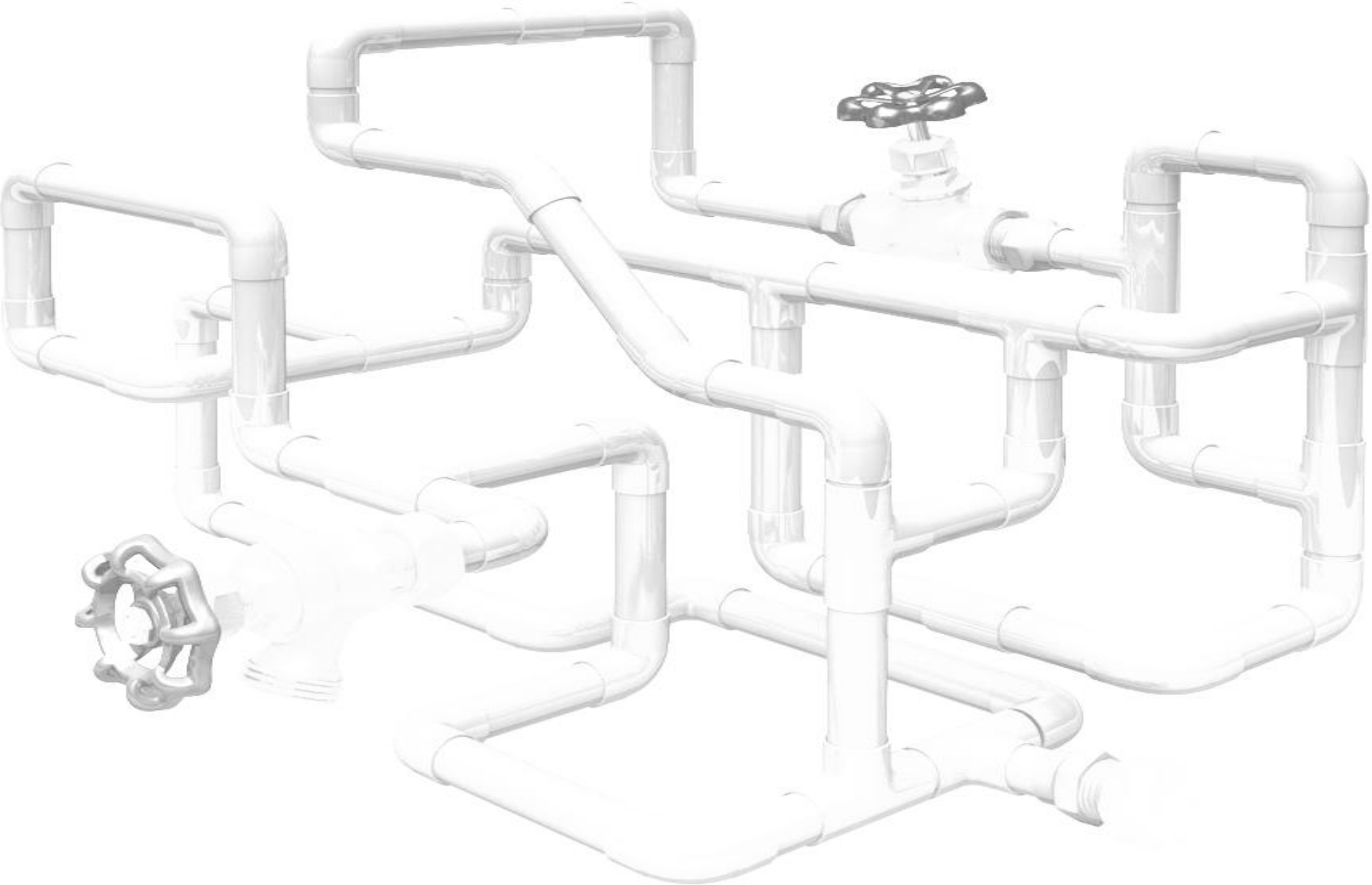
- **Secure Content Automation Protocols (SCAP)**

To learn more…

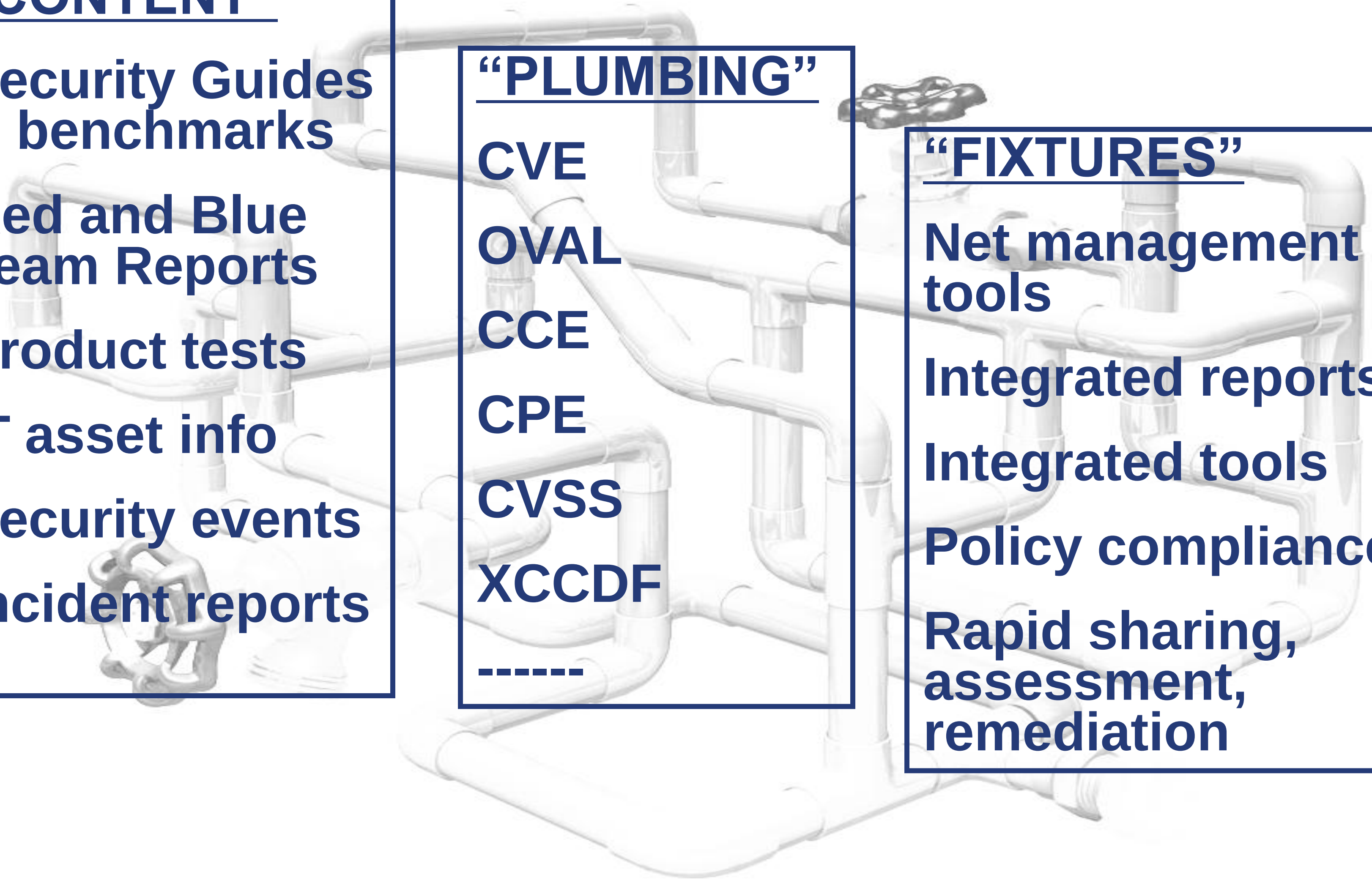
- ***NSA Security Guidance***
  - http://www.nsa.gov/snac/
- ***The National Vulnerability Database, Security Content Automation Protocols, etc.***
  - http://nvd.nist.gov/home.cfm
- ***Common Vulnerability & Exposures***
  - http://cve.mitre.org
- ***The Center for Internet Security***
  - http://cisecurity.org

- **Backup**

Vulnerability "Plumbing"



Vulnerability “Plumbing”



“CONTENT”

Security Guides & benchmarks

Red and Blue Team Reports

Product tests

IT asset info

Security events

Incident reports

“PLUMBING”

CVE

OVAL

CCE

CPE

CVSS

XCCDF

“FIXTURES”

Net management tools

Integrated reports

Integrated tools

Policy compliance

Rapid sharing, assessment, remediation